

**AMENDMENTS TO THE CLAIMS**

1. – 2. (Canceled)

3. (Previously presented) A radio resource management method comprising the control steps of:

detecting the occurrence of interference between service areas provided by plural radio base stations;

controlling transmission power of a common control signal, which governs a scope of a service area that a radio base station forms, for interference suppression in response to said occurrence of interference between service areas provided by plural radio base stations;

detecting the occurrence of interference based on radio link quality information notified from each of said radio base stations;

wherein said radio link quality information comprises at least a radio link reception level; and

wherein said control step comprises the step of controllably reducing the transmission power of a radio base station, of which a reception level exceeds a predetermined threshold value and a current transmission power is more than a lower limit value, of radio base stations using the same frequency as a frequency currently used by said radio base station.

4. – 5. (Canceled)

6. (Previously presented) A radio resource management apparatus comprising:  
a detector for detecting the occurrence of interference between service areas provided by plural radio base stations; and

a controller for controlling transmission power of a common control signal, which governs a scope of a service area that a radio base station forms, for interference suppression in response to said occurrence of interference between service areas provided by plural radio base stations;

wherein the occurrence of interference is detected based on radio link quality information notified from each of said radio base stations; and

wherein said radio link quality information comprises at least a radio link reception level; and wherein said controller comprises means for controllably reducing the transmission power of a radio base station, of which a reception level exceeds a predetermined threshold value and a current transmission power is more than a lower limit value, of radio base stations using the same frequency as a frequency currently used by said radio base station.

7. (Previously Presented) A radio base station in a radio communication system, said radio communication system including plural radio base stations each which provides a service area and a radio resource management apparatus for managing radio resources of said radio base stations, comprising:

means for measuring a radio link quality and then notifying a radio resource management apparatus of radio link quality information being a measurement result; and

means for responding transmission power control issued from said radio resource management apparatus and then controllably changing transmission power of a common control signal, which governs a scope of service area that a radio base station forms, to suppress interference between service areas detected based on said measurement result in said radio resource management apparatus.

8. (Original) The radio base station defined in Claim 7, wherein said notification means performs a notification operation at predetermined notification intervals.

9. (Original) The radio base station defined in Claim 8, wherein when said radio link quality exceeds a predetermined threshold value, said notification interval is set longer than said threshold value.

10. (Original) The radio base station defined in Claim 8, wherein when a distribution value of a radio link quality measured within a fixed period exceeds a predetermined threshold value, said notification interval is set longer than said threshold value.

11. (Canceled)

12. (Currently amended) ~~A~~ [[The]] radio resource management method defined in Claim 11, further comprising the steps of:

detecting the occurrence of interference between service areas provided by plural radio base stations;

controlling transmission power of a common control signal, which governs a scope of a service area that a radio base station forms, to suppress the interference autonomously by each of said plural radio base stations;

measuring information on a radio link quality in each of said radio base stations and then mutually notifying other radio base stations of measured information; and

controllably reducing the transmission power thereof when a radio base station providing a maximum interference to other stations is specified based on said radio link quality information notified.

13. (Original) The radio resource management method defined in Claim 12, wherein, when said maximum interference amount exceeds a predetermined value, said transmission power is reduced controllably.

14. (Canceled)

15. (Currently amended) ~~A~~ [[The]] radio base station defined in Claim 14, further comprising:

detector for detecting the occurrence of interference between service areas provided by plural radio base stations;

controller for controlling transmission power of a common control signal, which governs a scope of service area that a radio base station forms, to suppress interference autonomously in response to said occurrence of interference between plural service areas;

means for measuring information on a radio link quality and then mutually notifying other radio base stations of measured information; and

means for controllably reducing transmission power when a maximum interference is provided to other station based on the radio link quality information notified from other radio base station.

16. (Original) The radio base station defined in Claim 15, when said maximum interference amount exceeds a predetermined value, said transmission power is reduced controllably.

17. – 23. (Canceled)

24. (Currently amended) A [[The]] radio resource management method defined in Claim 23 comprising the steps of:  
receiving information of radio link qualities from plural radio terminals; and  
controlling transmission power of a radio base station based on said information of radio link qualities from plural radio terminals,

wherein said radio link quality information has a reception level from a neighboring radio base station measured by each of said radio terminals; and wherein said control step comprises the step of controlling transmission power of said radio base station based on the sum of reception levels from neighboring radio base stations of the same frequency as the frequency used by an interested radio base station.

25. (Original) The radio resource management method defined in Claim 24, wherein said control step comprises the step of controllably reducing a transmission power of a base station where the sum of said reception levels exceeds a predetermined threshold value and the current transmission power is more than a lower limit value.

26. (Canceled)

27. (Currently amended) A [[The]] radio resource management apparatus defined in Claim 26 comprising:  
receiver for receiving information of radio link qualities from plural radio terminals; and

controller for controlling transmission power of a radio base station based on said information of radio link qualities from plural radio terminals,

wherein said radio link quality information has a reception level from a neighboring radio base station measured by each of said radio terminals; and wherein said control means comprises the step of controlling transmission power of said radio base station based on the sum of reception levels from neighboring radio base stations of the same frequency as the frequency used by an interested radio base station.

28. (Original) The radio resource management apparatus defined in Claim 27, wherein said controller comprises means of controllably reducing the transmission power of a base station where the sum of said reception levels exceeds a predetermined threshold value and the current transmission power is more than a lower limit value.

29. (Canceled)

30. (Currently amended) A [[The]] radio resource management method defined in Claim 29 comprising the steps of:  
receiving information of radio link qualities from plural radio terminals; and  
controllably changing a frequency used by a radio base station based on said information of radio link qualities from plural radio terminals,

wherein said radio link quality information has a reception level from a neighboring radio base station measured by each of radio terminals; and wherein said control step comprises the step of controlling the frequency of said radio base station based on an interference amount being an average value of reception levels from neighboring radio base stations of the same frequency as the frequency used by an interested radio base station.

31. (Canceled)

32. (Currently amended) A [[The]] radio resource management apparatus defined in claim 31 comprising:

a controller that changes a frequency used by a radio base station based on radio link quality information provided by plural radio terminals,

wherein said radio link quality information has a reception level from a neighboring radio base station measured by each of said radio terminals; and

wherein said controller controls the frequency of the radio base station based on an interference amount being an average value of reception levels from neighboring radio base stations of the same frequency as the frequency used by an interested radio base station.

33. – 34. (Canceled)

35. (Currently amended) A [[The]] radio terminal defined in Claim 33 comprising:  
means for measuring a radio link quality and then notifying a radio resource management apparatus of radio link quality information being the measurement result, the notifying means performing a notifying operation at predetermined notification intervals; and  
means for responding distributed control indication for a load being a radio terminal accommodated in a radio base station, based on said radio link quality information, said distributed control indication being created from said radio resource management apparatus, and switching a radio base station to be connected,

wherein when a radio link quality exceeds a predetermined threshold value, said notification interval is set longer than that in the case of less than said threshold value.

36. (Currently amended) A [[The]] radio terminal defined in Claim 33 comprising:  
means for measuring a radio link quality and then notifying a radio resource management apparatus of radio link quality information being the measurement result, the notifying means performing a notifying operation at predetermined notification intervals; and  
means for responding distributed control indication for a load being a radio terminal accommodated in a radio base station, based on said radio link quality information, said distributed

control indication being created from said radio resource management apparatus, and switching a radio base station to be connected,

wherein when a distribution value of a radio link quality measured within a fixed period exceeds a predetermined threshold value, said notification interval is set longer than that in the case of less than said threshold value.

37. – 46. (Canceled)